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shell begins to form, and afterwards covers the whole trunk, but not the head.

The inner organs are developed from the inner germ-layer (endoderm), which divides into three leaves, one forming the middle part of the intestine, and the two others the glands and ovaries. The pharyngeal jaws arise as two small projections on the sides of the primitive cavity.

The male develops in the same mode as the female. The Rotifers, so far as can be judged from one species, seem to develop in a manner quite unlike other worms, and in the earliest phases much as in some Gastropods, the mode of their embryology not throwing much light on the affinities of the group, which is of doubtful position, though with more of the characters of worms than crustacea.

The young pass through a morula state, and the embryo directly attains the mature form in the egg.

#### LITERATURE.

*Salensky*. Beiträge zur Entwicklungsgeschichte der *Brachionus urceolaris*. (Siebold and Kölliker's Zeitschrift, 1872). Compare also the papers of Huxley, Leydig, Cohn, Gosse and Nägeli.

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#### REVIEWS AND BOOK NOTICES.

SULLIVANT'S ICONES MUSCORUM, OR FIGURES AND DESCRIPTIONS OF MOST OF THOSE MOSSES PECULIAR TO NORTH AMERICA, WHICH HAVE NOT YET BEEN FIGURED. — *Supplement (Posthumous)*. With eighty-one copper plates, imp. 8vo. Prefaced by a Biographical Sketch of the author, by ASA GRAY. Mr. Sullivant died on the 30th of April, 1873, leaving the plates of this exquisite volume ready for publication, and the letter-press partially so. The latter has been completed by his friend and associate, Mr. Lesquereux; and the volume has at length been brought out, at the expense of Mr. Sullivant's executors, and in accordance with his wishes. Only a very small edition has been printed. The delicate copper plates were not intended for a large impression; and the number of botanists interested in the serious study of mosses is supposed to be small.

As with the larger first volume, with one hundred and twenty-three plates, issued ten years ago, so with this supplementary one now bequeathed to botanists, the sale of the whole edition, at the price for the present fixed, would be far from covering the actual

pecuniary outlay in the production. The work is a gift to bryological science by one of its most distinguished cultivators, who, fortunately, was blessed with the means which enabled him to bestow it. He accordingly fixed a price much below the cost, so as to bring the work fairly within the reach of students who may desire it. This policy will still be adhered to for a sufficient time to enable those in this country who need the work to obtain it advantageously. For the present the price of the original volume will be \$14.00; of the supplement \$10.00; of the two together, \$24.00. It is supplied by the American Naturalists' Agency, as well as by Charles W. Sever, Cambridge, Mass., by Westermann & Co., New York, and by Trubner & Co., London.—ASA GRAY.

### BOTANY.

INTRODUCTION OF *ULEX EUROPEUS* IN THE BERMUDAS.—In the winter of 1872-3, I sowed English seed of this shrub in my garden, and a few healthy plants were produced in the course of twelve weeks or so. Leaving for the north for the summer months, I thought it best, to insure their safety, to present them to His Excellency the Governor, Major General Lefroy, whose endeavors to introduce new forms of vegetation into the islands are widely known and appreciated. The plants died during the summer. More seeds were then sown in Government House garden and came up well, and being transplanted into favorable positions, thrived beyond expectation, and in February last I had the pleasure of seeing several plants, arranged as a thicket on a north-western slope, in blossom. Still, I was somewhat skeptical regarding the ultimate result, knowing that this form refuses to grow farther south than the latitude of 42° in the eastern hemisphere, but much to my satisfaction the legumes duly formed, and the seeds became fully ripe at the beginning of this month, so that the plant may now be said to be naturalized in these islands.—J. MATTHEW JONES, *the Hermitage, Bermudas, May 12, 1875.*

### ZOOLOGY.

MR. GENTRY'S PAPER ON FERTILIZATION THROUGH INSECT AGENCY.—It is to be regretted that this interesting paper fails just where it might be of scientific value. If Mr. Gentry, who, by the context of the article evidently anticipated cross fertilization, had enclosed a few female flowers in gauze bags, and self